

Title (en)
Electrophoresis apparatus of capillary type

Title (de)
Kapillar-Elektrophoresegerät

Title (fr)
Appareil d'électrophorèse capillaire

Publication
EP 0704699 A2 19960403 (EN)

Application
EP 95115414 A 19950929

Priority
JP 25907994 A 19940929

Abstract (en)
The electrophoresis apparatus of capillary type according to the invention has a capillary 11, 12 with gel for use in electrophoresis filled in a hollow portion thereof; a first buffer solution container 16 for storing a buffer solution and introducing a sample labelled with a fluorescent substance into an inlet of said capillary 11, 12 for electrophoresis; a second buffer solution container 17 for storing a buffer solution containing a luminous solution, into which said sample is continually introduced from an outlet of said capillary 11 after electrophoresis; electrophoresis means 13, 14 for subjecting said sample to electrophoresis by applying a predetermined value of voltage to said gel through which said sample is being transferred while being electrophoresed; and light receiving means 19 disposed underneath the outlet of said capillary 11, 12 to read fluorescence emitted from said sample from bottom in a direction in which said sample is approaching closer. This electrophoresis apparatus has benefits that it can read an electrophoresis pattern of a sample of a nucleic acid or a protein obtained by subjecting the sample to electrophoresis with a high sensitivity without requiring any expensive device structure such as a laser beams source system, it is cheaper than conventional ones requiring such a laser beams system, and it is easy to handle. <IMAGE>

IPC 1-7
G01N 27/447

IPC 8 full level
G01N 21/64 (2006.01); **G01N 27/447** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP US)
G01N 27/44721 (2013.01 - EP US)

Citation (applicant)
JP S61173158 A 19860804 - CALIFORNIA INST OF TECHN [US]

Cited by
US6447687B1; WO2004046709A1; WO03001200A3; US6929779B2; US6932940B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0704699 A2 19960403; EP 0704699 A3 19960821; EP 0704699 B1 20031126; DE 69532185 D1 20040108; DE 69532185 T2 20040826; JP 3034770 B2 20000417; JP H08101164 A 19960416; US 5616228 A 19970401

DOCDB simple family (application)
EP 95115414 A 19950929; DE 69532185 T 19950929; JP 25907994 A 19940929; US 53595595 A 19950928